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Eschorichia col Excharichia col Excharichiecoli Cochorichiacol Escherichia coli Escherichia coli Eacherichia coli Cacherichia coli Escherichia coli فصعناء صلحا Secherichia coli CACCOGCUMACUCCGUGCCAGCAGCCGGGUMAUACGGAGGGGGCCAAGCGGTUAAUCGGAAUUACUGGGCGUAAAGCGCACGCAGGGGGUUAGUGAAGCAA GGAVGACCAGCCAGACUGGAAACUGAGACACGGUCCAGACUCCUACGGGAGGCAGCAGUGGGGAAUAUUGCACAAUGGGCGCAAGCCUGAUGCAGCAGCCAUGC UNCAGAUCUGGACGAAUACCGGUGGCGAAGGCGGCCCCCGGGACGAAGACUGACGCUCAGGUGCGAAAAGCGGGGGAGCAAACAGGAUUAGAGAACACCCGGG <u> МЕСТИЛЛАЛСИСЛАЛИВАЛИЧЕЛСЕСЕСЕССССАСАЛЕСЕСИВЕЛЕСАЛЕТИВЕТИВЕЛАСЕСАЛЕСАЛЕСТИВЕСТИВЕСТИВЕСТИВЕСТИВЕ</u> <u> UAGUCCACGCCGUAAACGAUGUCGACUUGGAGGUUGUGCCCUUGAGGGUGGCUUCCGGAGCCUAACGGGUUAAGUCGACCGCCUGGGGAGUAÇGGCCGC</u> CANGGIANCCGINGGGGANCCTIGCGGTUGGAUCACCTICCTUTA GCCCGUCACACCAUGGGAUGGGAAAAGAAGAAGAAGAAGCTIIAACCTIICGGGAAGGGCGCTUTACCACUTUGGUGAUGCAUGACGGGGGGAAGGCCGA UCCGGAUUGGAGUCUGCAACUCGACUCCAUGAAGUCGGAAUCGCUAGUAAUCGUGGAUCAGAAUGCCACGGUGAAUACGUUCCCGGGCCUUGUACACC <u> АЛСЕЛАСССИИЛИССИЧИНОССЛОСССИССССССССААСССААСИСЛАЛОСЛОССАСИСЛИЛЛАССОСАЛОГИИ СОС</u>

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Becherichia.coli	AUAACCGGCGAUUUCCGAAUGGGGAAAACCCAGUGUGUUUCGACACACAC	
Kankerlukia sali	CAVVARAVECECAVARVAVAVAVAVAVACERATVARGECECEVADAVECARCAVACERAVECAVACERAVA. VICELEX SEX. ALEXAMENTE CONTRACTOR CO	
Locherichia coli	CCCUCUCANAAGCCCCCCAAUACAGCCUCACACCCCCUACACAAAAAUGCACAUGCUCUCACCACAAGCUCAAGAGCGCGCACACACA	
Escherichia coli	ANUNUGGGGGANCEAUCEUCEAAGGCUAAAUACUCEUCACUGACGGAUAGUGAACCAGUACCGGGAAGGGAA	
Escherichia.coli	AAAAAGAACCUGAAAACCGUGUACGAACAAGCAGGGAAGCACGCUUAGGCGUGUGACUGCGUACCUUUUGGUAUAAAUGGGGUCAGCGACUUAUAUAGGGACAACUUAUA	
Excharichia.coli	CAAGGUUAACCGAAUAGGGGAGCCGAAGGGAAACCGGAGUCUUAACUGGGCGUUAAGUUGCAGGGUAU4GAACCCCGAAAACCCCGGUGAUCUAGGCAAGGCA	
Escherichiacoli	GUUGAAGGUUGGGUAACACUAACUGGAGGACCGAAGCGAAGUUGAAAAAUUUAAGGGAUGACGAUGACGUGGGGGGGG	
Escherichia.coli	GANAGCUGGUUCUCCCCGAAAAGCUAUUVAGGUAGGCCUCGUGAAAUUCAVCUCCGGGGGUAGAGCACUGUUVCGGCAAGGGGGGICAUCCCCACTIIIA CCAA	
Escherichia coll	CCCCANGCAAACUGCCAAAUACCCCCAACAAUGUUAUCACGCCGAGACACACAC	
Eschorichia coli	AGGUCCCAAAGUCAUGGUUAAGUGGGAAAACGAUGGGGAAAGGCCAGACAGCCAGGAUGUUGGCUUAGAAGCAGCCAUCAUUAAAGCAGAGAAAAGCGGAAAAGC	
Escherichiacoli	UCACUGGUCGAGUCGGCCUGCGCGGAAAGAUGUAACGGGGCUAAACCAUGCACCGAAGCGACGCACGC	
Excharichia coli	UGUAAGCCUGCGAAGGUGUGCUGUGAGGCAUCCUGGAGGUAUCAGAAGUGCGGAAUGCUGACAUAAGUAACGAUAAAGCGGGGUGAAAAAGCCGCGCCCCCCCC	
Escherichiacoli	ANGNOCANGGGIUCCUGICCANOGUUANUCGGGGCNGGGUGNGUCGNCCCCUANGGCGANAGGCGANAGGCGUNGUCGAUAGAGAIUAAUALAGGUUAAUAUTUCCU	
Escherichia.coli	GIACUUGGUGUUACUGGGAAAAGGGGAAAAGGGCUAUGUUGGCCGAGGGAACGGUUGIGCCGGUUUAAGGGIGIAGGCUGGUUUUCCAGGGAAAAGCG	
Lacherichia.com	GAMANICAAGGCUGAGGCGUGAUGACGAGGCACUACGGUGCUGAAGGAACAAANUGCCGUGCUUCCAGGAAAAAGCGUCUAAGGAUCAGGUACAAICAAGUAAAAUC	
CACHONOMALON	CONCECTAMACE CALCACACACO CONCACO A CONTRACA CONT	
CACHETIONAL COU	AGECACGCUGAUAUGUAGGUGAGGUCCCCUCGCGGAUGGAGGCUGAAAUGAGGCGAAGAUACCAGCUGGCUG	
CACAGO COMA COM	AAACACGAAAGUGGACGUAUACGGUGUGACGCCGGGUGCCCGGAAGGUUAAUUGAUGGGGUUAGCGGAAGCGCAAGCUCUWGAUCGAAGCCCCGGTAA	
Cachanchia coli	ACGGCGGCCGUAACUAUAACGGUCCUAAGGUAGCGAAAUUOCCUUGUCGGGUAAGUUCCGACCUGCACGAAUGGCGUAAUGAUGACCAGGCUGUCUCCACC	
L.Compona.com	CEMENCIACHERIANAUTUENNCUCECTICHENNENUGCNCTGCGCCCCCCCCCACANACACCCCCGUENNCCTUTUNCUNUNCCTUTENCACTCGCCCCTGCNCATUG	
Lacherichia.coli	AGCCUUGAUGUGUAGGAUAGGUIGGGAGGCUUUGAAGUGUGGACGCCAGUCUGGAUGGAGCCGACCUUGAAAUACCACCCUUUAAAUGUUUGAAGGUIGUAAAC	
Excharichia coli	GUNGACCCCUNANCCCGGCUNGCGGACAGNGUCUGGUGGGUAGUUNGACUGGGGCGGUCUCCUANAAGAGUAACGGAAGGAGCACGAAGGAGCUAGCUNANC	
Exchanichia.com	CUCCUCCAACÀUCAGCAGCUUAGUCAAUGCCAUGACCAGCUUGACUGCGAGCGUGAGCGCCCAGCAGCAGCUCCAAAAGCAGGUCAUAGUGAUCCGGUGG	
Excharichiecoli	UUCUGAANGGAAAGGGCCAUCGGCUCAACGGAUAAAAAGGUACUCGGGGGAAUAACAGGCCUGAUACGCCCAAGAGUUCAUAUAGGGCGGGGGGUUUGGCACCC	
Excherichia.coli	CGANGUCGCCUCAUCACAUCCUGGGGCCUGAAGUAGGCCCCAAGGGUAUCGCCUGUUCGCCAUUUAAAGUGGGAAGCGGGGGUUAAGAAGGGGGGAAGAGAGAG	
Excharichia.coli	CAGUUCGGDCCCUAUCUGCCGUGGGCGCCGCACAAACUGAGGGGGGCDGCUCCUAGUACGAACGAACGCACGCAACGCA	
Excherichiacoli	, ACCENYAGECYCRECCEGRIVECRIVYAGECRYVEYEYRYCHANACCHOCHANACCHOCHANACAGECCECCHENOCAGAGAGAGACCCAGAGAGAGAGAGAGAGAGAGAGAGAG	
Excherichiecoli	ÉGOUCCUCAAGGAACGUUGAAGACGACGACGUUGAUAGGCCGGGUGUGUAAGCGCAGCGAUGCGUUGAGCUAACCGGGUACUAAUGAAGCGUGAGGCUUAA	
Escherichia.coli	ссии	

Escherichia coli Escherichia coli

FIG. 3

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DEGGEVERRANDESCEGECVEVICABIONYY CEVRYY CECVETARA CECTONY CECCONY CECCONY CONTRACTOR CONT AAAUACCACUACCUUUAUAGUUUCUUUACUUAUUCAAUGGGGAGCUGGAAUUCAUUUCCACGUUCUAGCAUUCAAGGUCCCAUUCGGGGCUGAUCCGGGUUGAACACAUUGUCAGG ŬĠĀĀĊĊĀŪĀĠĊŪĀĠĊŨĀĠĊĀĀĊĠĠŪĠĊĀĊŪŪĠĠĊĠĠĀĀĀĠĠĊĊŪŪĠĠĠŪĠĊŪŪĠĊĊĠĀĀŪŪŪĠĊĀĄŪŢĀŪŪŪĠĊĠŪĠĠĠĠĀŪĀĀĀĀĀŪŪŪĠŪĀŪĀĀĀĊĠĀĊŪŪĀĠĀŊŎĠĀ CANDED CYCLOCUMAUDAANACADA COMUNICA DA COMUNICA COMUNICADO CONTROL COMUNICAMBRICA GGUNUUGUNAGCGGUNGNGUGUUGUUGUUNCGNUCUGCUGNGNUUNAGCCCUUDGUUGUCUGNUUUGU AGCGACAUUGCUUUUUGAUUCUUCGAUGUCGGCUCUUCCUAUCAAACCAAAGCAGAAUUUCGGUAAGCGUUGGAUUCUUCACCCACUAAUAGGGAAACAUGAGCUGGGUUUAGACCGGCGU CO CANANCE Y TARA CONTRACTOR DE CONTRACTOR DE CONTRACTOR CONTRACTOR CONTRACTOR DE CONT ACGGGGGGAGUAACUAUGACUCUCUUNAAGGUAGCCIAAUGCCUCGUCAUCUAAUUAGUGACGCGCAUGAAUGAAUUAACGAGAUUCCCACUGUCCCUAUCUAGCGAAACCACAC ИСАЛНОВИССАЛСКОЕ СОССОЕЛЕНИЕ ССЕВОСЕЛЕСИИ В СОВИНИЕМ СО В ВИКАЛИВИИ В В ВИКАЛИВИИ В ВИКАЛИВИЕМ В ВИКАЛИВИЕМ В В ЛЕНСЕЛНССИЛЛЕЛЕЛИЕСЕЕЛЛЕСИССЕНИИСАЛЛЕСССИЕ́ЛИЧИЦИИСЕЛЕЕССЛЕСЛИСЕЛЛАСЕЕЛЛИССЕЕЛЛАСЛИИССЕЕЛЛСИЧЕЕЛИИСИЧЕЛИССИЛАС CGAAVGAACUAGCCCUGAAAAAUGGCGCUCAAGCGUGUVACCUAVACCGUCAGCGUCAGGUVGAVGAVGAVGACCGAGAGAGAGGGUGGAGGUCAGUGACGAAGCCUAGACC © POLICY CONTRACTOR DE L'ANDERGE DE L'ANDERG ИСАХАСОИИАХАОЛОВИКАСИССИИ ФИЛАСИИАЛИИСАХСООСЕХСАИИОСАХОВОВАКОВОВИТИТЕ В ОТВЕТИТЕ В ОТВЕТИТЕ В ОТВЕТИТЕ В ОТВЕТИ И САХАСОИИАХАОЛОВИКА В ОТВЕТИТЕ В алуссилспусляелаелаелленноссеную постаную постану постаную постан **ФИЛЛЕВИНСЕСТИСИЛЕНСЕЛЕЛИСИВСЕЛЕЛИСИИ СЕВЕСИЛЕИЛЕСТИЛИВСТИЛИВСТИЛИВЕЛЕЛИВСТВИТЕЛЬСЬ В СЕВЕСТИТЕЛЕСТИТЕЛЕСТИТЕЛЕ** CCAAAACAUGGUGAACUAUGCCUGAAUAGGGGAAAGCCAGAGAAACUCUGGUGGAGGCUCGUAGCGGUUCUGACGUGCAAAUCGAUGGUGGAAUUUUGGGGAAAUAGGGGGAAAAGACUAAUG авалалууу каланда салуу байуу каланда к **ϴϤϾϾϘλΑϤΑϹϤϾϹϹΑϾϹϤϾϾϾΑϹϤϾΑϾϾΑϹϹϤΑϹϾϤΑΑϾϤΑΑϾϹΑΕϾϹΑϤΑΑϤϾϾϤϤΑϤΑΫΑΕΩΕϹϹΩϹϹϹϤϹϤϤϾΑΑΑϹΑϹϹΕΑΑϹϹΑλϾϾΑϾϤϹϤΑΑϹϤΑϹϤΑΝΘΕϹ**ΑΑΘ ͶͼͶͲͶϤͶͼϹϾϹϹͶϹͶͼϹͲϹϹͲͶϤͶϾϾϾϤϠλͼϾϾϾΑλλͶϹͶϹϾϹΑͳͶϤͶϹλϹϤϾϾϘϹϹλͶϹλͶϹͿΑͶͶͲϤϾϾϦϾϾϹλΑϾΑλͶλλΑͶϹϹΛͶλϾΕΛΛͶϾϤͶλΘϹϹͲϹϾϾͶλλϾͶλͶͶλͶλϾϹϹͲ AAUAUUGGCGAGAGACCCAUAGCGAACAAGUACKGCGAAGGAAGAAGAACAAGAGAAAAAGAGAGAAAAAAGGGAAAAGGAAAAGGAAAGGGAAAGGGCAUUGGAAAAGG **Ⴎ**ĂĠŨĂĂĊĠĠĊĠĂĠŨĠĂĂĠĊĠĠĊĂĂĂĂĠĊŨĊĬĂĂĬŨŨŨĠĂĂĂŨĊŨĠĠŨŖĊĊŨĠĠŨĠĊĊĊĠŔĠŨŨĠŨĬĂĂŨŨŨĠĠĂĠĠĠŶĂĊŨŨŨĠĠĠĊĊĠŨŨĊĊŨŨĠĠŨĸŨĠŨŨĠĠŎĸĊŔĠĠ

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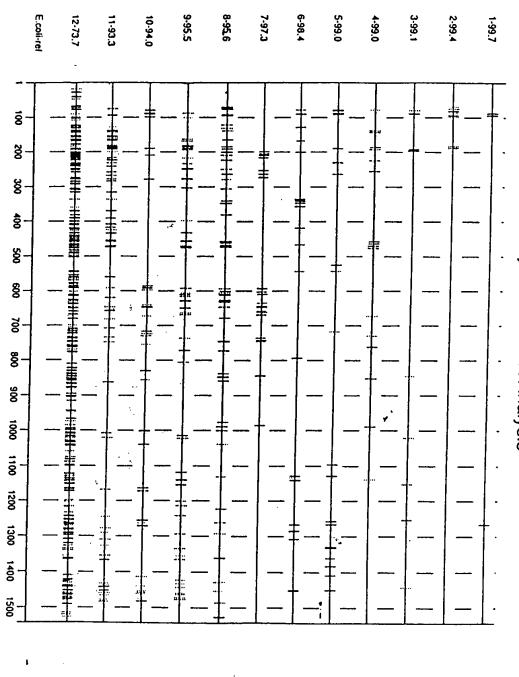
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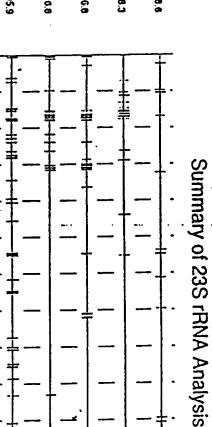
Summary of 16S rRNA Analysis

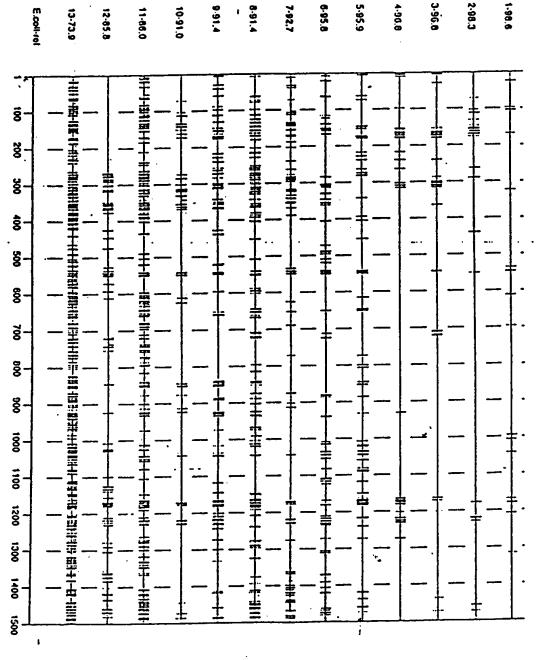


LEGEND: Summary of 16S rRNA Analysis (Listing of Bacteria and percent similarity included in analysis)

9. 95.5% Spiroplasma citri-Spiroplasma mirum; 10. 94.0% Clostridium lituseburense-Clostridium Pseudomonas alcaligenes-Pseudomonas stutzeri; 8. 95.6% Chlamydia psittaci-Chlamydia trachomatis; sodellii; ll. 93.3% Listeria monocytogenes-Brochothrix thermosphacta; l2. 73.7% Escherichia Mycobacterium avium; 6. 98.4% Mycobacterium avium-Mycobacterium tuberculosis; 7. 97.3% coli-Bacteroides fragilis. 4. 99.0% Neisseria gonorrhoeae-Neisseria meningitidis; 5. 99.0% Mycobacterium intracellulare cremoris-Streptococcus lactis; 3. 99.1% Lactobacillus lactis-Lactobacillus delbrueckii; 99.7% Clostridium botulinum G-Clostridium subterminale; 2. 99.4% Streptococcus

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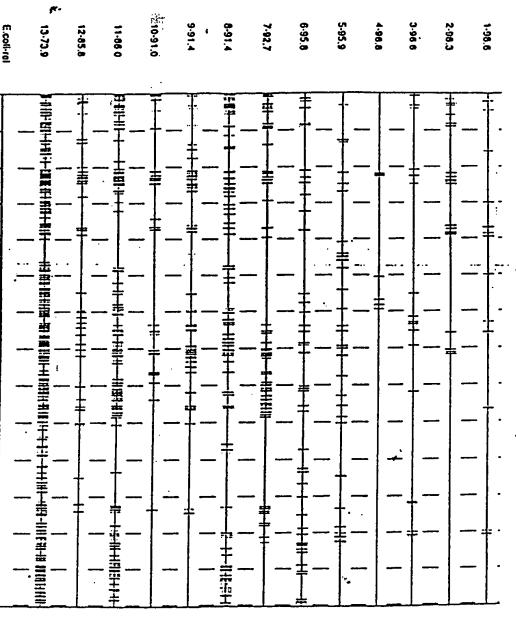




Proteus vulgaris; 3. 96.8% Mycobacterium intracellulare-Mycobacterium avium; 4. 96.8% CEGEND: in analysis) Summary of 23S rRNA Analysis (Listing of Bacteria and percent similarity included

trachomatis-Chlamydia psittaci; 13. 73.9% Escherichia coli-Anacystis nidulans. rhinoscleromatis; 11. 86.0% Escherichia coli-Pseudomonas unrugin sa; 12. 85.8% Chiamydia Mycobacterium intracellulare-Mycobacterium fortuitum; 10. 91.0% Escherichia coli-Klebsiella Klebsiella rhinoscleromatis; 8. 91.4% Bacillus stearothermophilus-Bacillus subtilis; 9. 91.4% kansasii: 6. 95.8% Nicotiana tabacum (tobacco)-Zea mays (maize); 7. 92.7% Proteus vulgaris-Mycobacterium avium-Mycobacterium asiaticum; 5. 95.9% Mycobacterium tuberculosis-Mycobacterium 98.6% Neisseria gonorrhoeae-Neisseria meningitidis; 2. 98.3% Proteus mirabilis-

Summary of 23S rRNA Analysis



LEGEND: Summary of 23S rRNA Analysis (Listing of Bacteria and percent similarity included ın analysis)

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Myc bacterium intracellulare-Mycobacterium fortuitum; 10. 91.0% Escherichia coli-Klebsiella Mycobacterium avium-Mycobacterium asiaticum; 5. 95.9% Mycobacterium tuberculosis-Mycobacterium Proteus vulgaris; 3. 96.8% Mycobacterium intracollulare-Mycobacterium avium; 1. 96.8% rhinoscl romatis; 11. 86.0% Escherichia coli-Pseudomonas aeruginosa; 12. 85.8% Chlamydia Klebsiella rhinoscleromatis; 8. 91.4% Bacillus stearothermophilus-Bacillus subtilis; 9. kansasii; 6. 95.8% Nicotiana tabacum (tobacco)-Zea mays (maize); 7. 92.7% Proteus vulgaristrachomatis-Chlamydia psittaci; 13. 73.9% Eschérichia coli-Anacystis nidulans. 98.6% Neisseria gonorrhoeae-Neisseria meningitidis; 2. 98.3% Proteus mirabilis-

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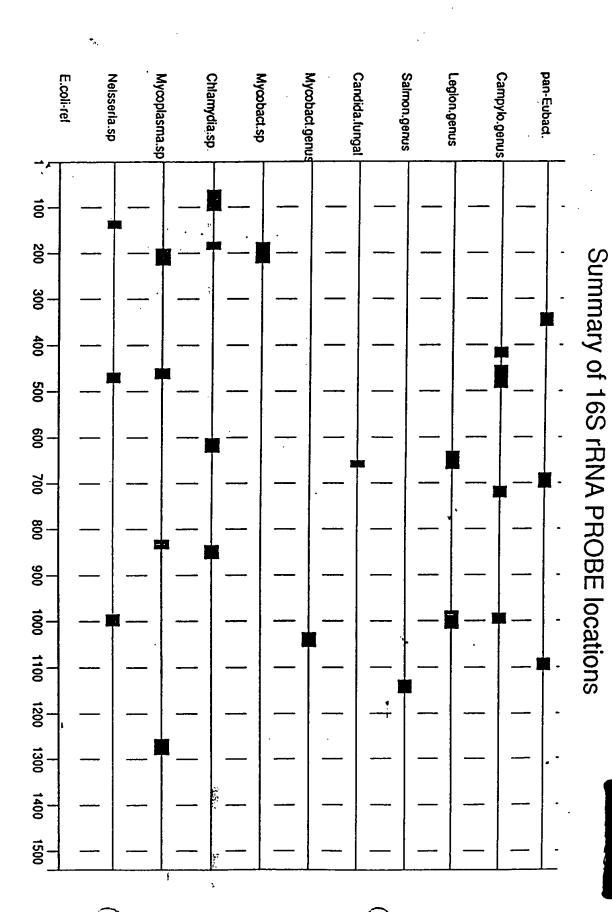
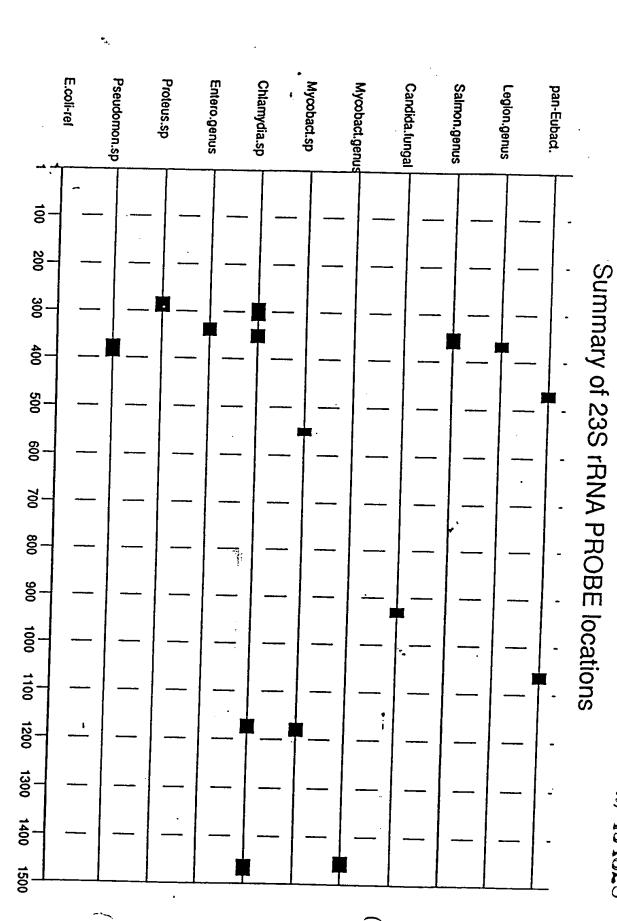


FIG. 9





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FIG. 10



Summary of 23S rRNA PROBE locations

